

Notice of Allowability

Application No.

09/600,054

Examiner

Kimberly D Flynn

Applicant(s)

ALLES ET AL.

Art Unit

2153

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to an Amendment and remarks filed 10/20/2004.
2. ☒ The allowed claim(s) is/are 1-35,90-95 and 100-102.
3. ☒ The drawings filed on 06 July 2000 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

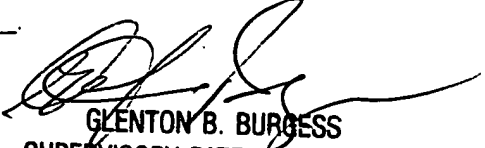
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


GLENTON B. BURGESS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

- The application has been amended as follows:

A. The abstract submitted on July 6, 2004 has been replaced by the following:

Abstract

An internet service node (ISN) enabling the provision of desired service policies to each subscriber. The ISN may contain multiple processor groups, with each subscriber being assigned to a processor group. The assigned processor group may be configured with the processing rules, which provide the service policies desired, by a subscriber. A port may determine the specific processor group to which received data is to be forwarded. A content addressable memory with masks for individual locations may be implemented to quickly determines the processor group to which received data is to be assigned to. Due to the features of the present invention, an ISN may be able to serve a large number of subscribers efficiently. The ISN may be used at the edge of an access network.

Allowable Subject Matter

2. Claims 1-35, 90-95, and 100-102 are allowed.
3. The following is an examiner's statement of reasons for allowance:

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Applicant's invention is drawn to a system and method for an Internet Service Node (ISN) to enable the provision of desired service policies to subscribers.

Applicant's independent claims 1, 2, 4, 27, and 100 each recite, *inter alia*, a method of providing a desired set of service policies to each of a plurality of subscribers, the method comprising:

identifying a plurality of processing nodes which provide a set of service policies desired by each subscriber; configuring an internet service node as an edge device of an access network with the processing rules corresponding to each of the subscribers and with the service policies being controlled from an edge of the access network; receiving data in the internet service node; determining in the internet service node a specific subscriber to whom the received data relates; and applying in the internet service node the plurality of processing rules related to the determined specific subscriber, wherein the applying is performed after the determining. Applicant's invention of claims 1, 2, 4, 27, and 90 comprise a particular combination of elements, which is neither taught nor suggested by the prior art.

Applicant's independent claim 90 recites, *inter alia*, an internet service node (ISN) providing a desired set of policies to each of a plurality of subscribers, the ISN comprising:

identifying means for identifying a plurality of processing nodes which provide a set of service policies desired by each subscriber; configuring means for configuring an internet service node with the processing rules corresponding to each of the subscribers, the internet service node is provided as an edge device of an access network so the policies can be controlled from an edge of the access network; receiving means for

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receiving data in the internet service node; determining means for determining in the internet service node a specific subscriber to whom the received data relates; and applying means for applying in the internet service node the plurality of processing rules related to the determined specific subscriber, wherein the applying is performed after the determining. Applicant's invention of claim 90 comprises a particular combination of elements, which is neither taught nor suggested by the prior art.

Accordingly, Applicants' claims are allowed for the reasons and for the reasons recited by Applicant in the amendments dated 10/20/04 and 4/13/05.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimberly D. Flynn whose telephone number is 571-272-3954. The examiner can normally be reached on M-F 8:30 - 5:00.

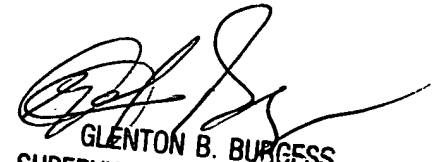
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glen Burgess can be reached on 703-305-4792. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kimberly D Flynn
Examiner
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KDF



GLENTON B. BURGESS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100